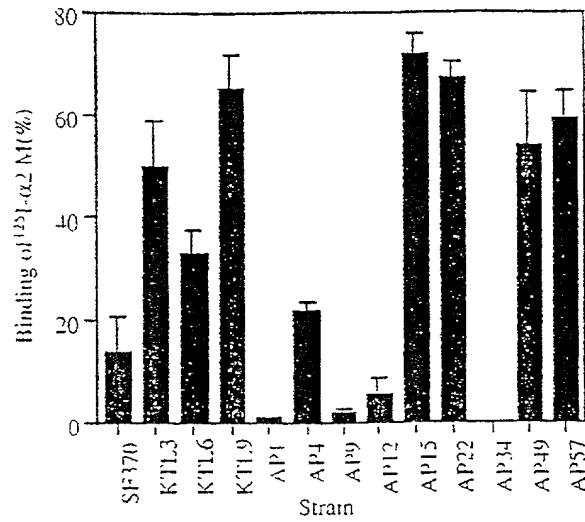
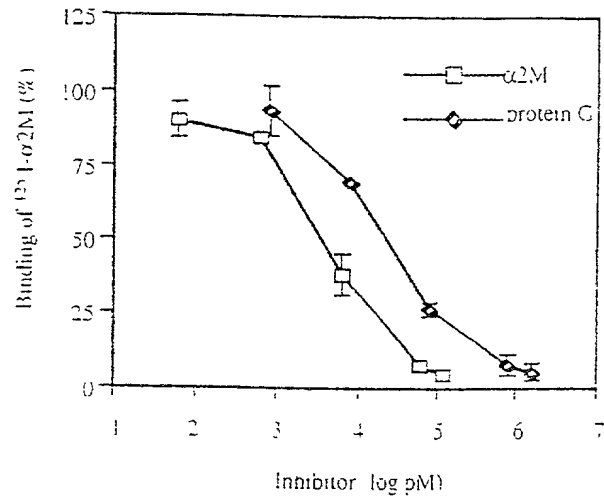


1/9

A.



B.



C.

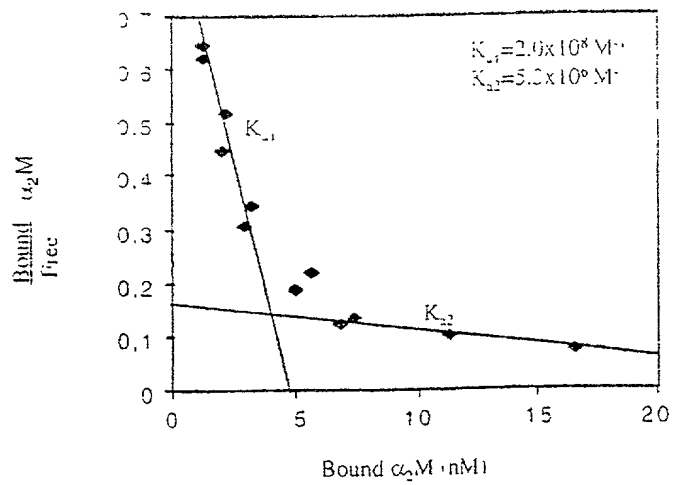
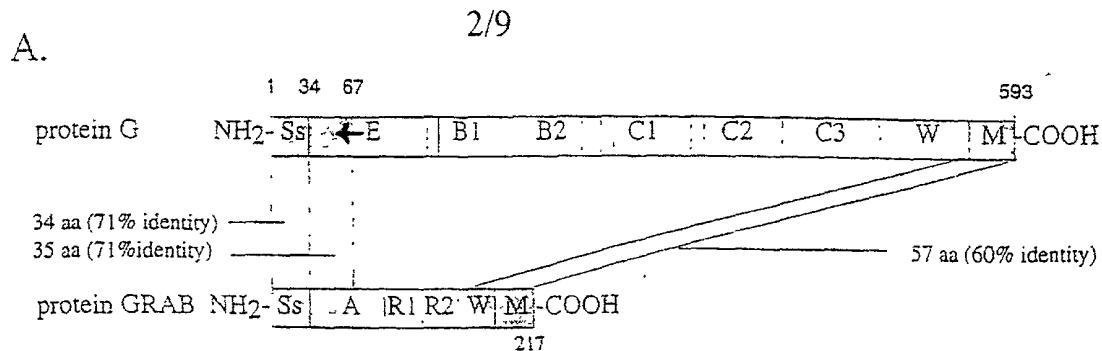


FIG. 1



B.

```

TTTCCAAATTATCGGTAATTTAATATGCTAATGCATATAAAAAATAAAAAAGGAGAAACA   60
ATGGGAAAAGAAATAAAAGTGAAATGCTTTTTGCGTAGATCAGCTTTTGGATTAGTTGCG   120
M G K E I K V K C F L R R S A F G L V A   20
└─┬─> Ss
GTGTCAGCATCAGTATTAGTCGGTTCAACAGTATCTGCTGTTGACTCACCTATCGAACAG   180
V S A S V L V G S T V S A V D S P I E Q   40
└─┬─> A
CCTCGAATTATTCCAAATGGCGGAACCTTAACATAATCTTCTTGGCAATGCTCCAGAAAAA   240
P R I I P N G G T L T N L L G N A P E K   60

CTGGCATTACGTAATGAAGAAAGAGCCATTGATGAATTAAAAAACAAGCTATTGAGGAT   300
L A L R N E E R A I D E L K K Q A I E D   80

AAAGAAGCTACGACAGCTATAGAAGCAGCAAGTTCAGATGCCTTAGAAGCATTAGCGGAT   360
K E A T T A I E A A S S D A L E A L A D   100
└─┬─> R1
CAAACAGACGCTTTACAATCAGAAGAAGCTGCGGTTGTTAAAGCGGATAACGCTGCTAGT   420
Q T D A L Q S E E A A V V K A D N A A S   120
└─┬─> R2
GACGCCTTAGAAGCATTGGCGGATCAAACAGACGCTTTACAATCAGAAGAAGCTGAAGTA   480
D A L E A L A D Q T D A L Q S E E A E V   140

GTTCAATCAGATAACGCTGCTAGTGACGCCTGGGAAAAAGCAGCAACTCCAATCGCTTTA   540
V Q S D N A A S D A W E K A A T P I A L   160
└─┬─> W
GATGTTAAGAAAACATAAAGATACAAAACCTGTAGTTAAAAAAGAAGAAAGACAAAACGTT   600
D V K K T K D T K P V V K K E E R Q N V   180

AATACCCTTCCTACAACCTGGTGAAGAGTCTAACCATTCTTTACAGCTGCTGCGCTTGCA   660
N T L P T T G E E S N P F F T A A A L A   200
└─┬─> M
ATAATGGTAAGTACAGGTGTGTTAGTTGTAAGTTCAAAGTGCAAAGAAAATTAGTTGCTAT   720
I M V S T G V L V V S S K C K E N   217

TTGTTCTAGCAAATGAAACAAGGGAATCGAAAGATTCTCTTTTT   764

```

FIG. 2

3/9

A.

<u>Strain</u>	<u>Serotype</u>	<u>Size of PCR product</u>	<u>Putative number of repeats</u>
AP1	1	500	2 ¹
KTL3	1	500	2 ¹
KTL6	1	500	2
KTL9	1	650	4 ¹
AP4	4	500	2
AP9	9	NA ²	-
AP12	12	500	2
AP15	15	850	6
AP22	22	650	4
AP34	34	650	4
AP49	49	750	5 ¹
AP57	57	500	2

¹Confirmed by sequencing²Not amplifiable

B.

SF370	NH ₂		R	R		-COOH		
KTL3	NH ₂		R	R		-COOH		
AP1	NH ₂		R	R		-COOH		
KTL9	NH ₂		R	R	R	R	-COOH	
AP49	NH ₂		R	R	R	R	R	-COOH
		57/58 aa identical	48/56 aa identical		-	41/42 aa identical		

FIG. 3

4/9

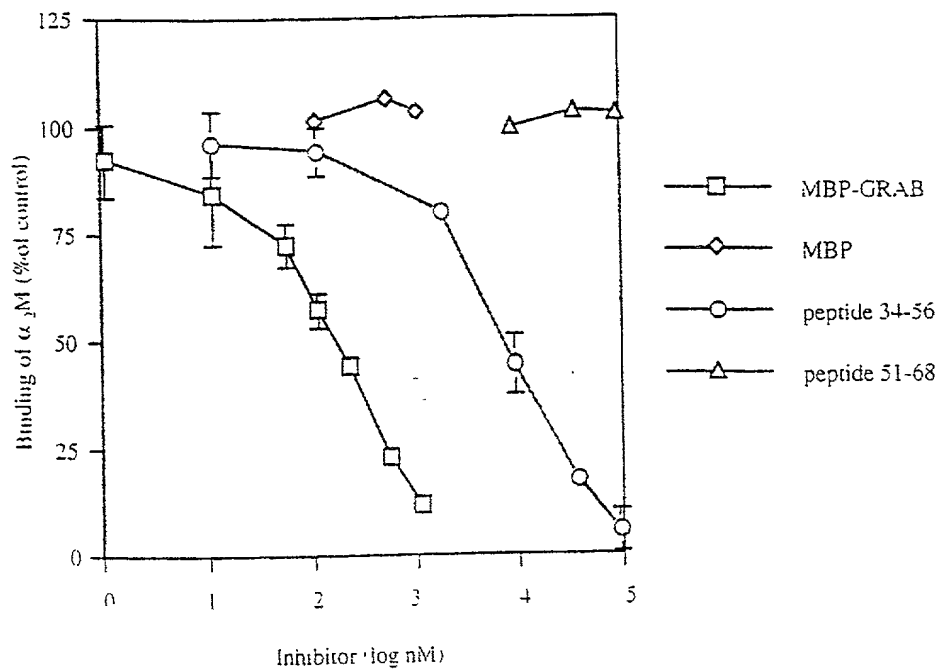


FIG. 4

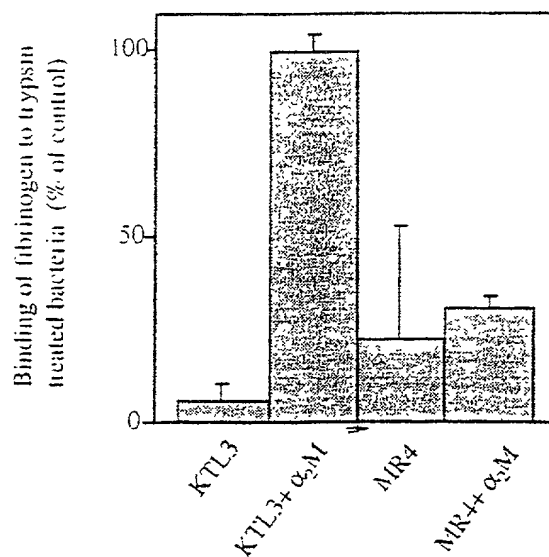


FIG. 6

5/9

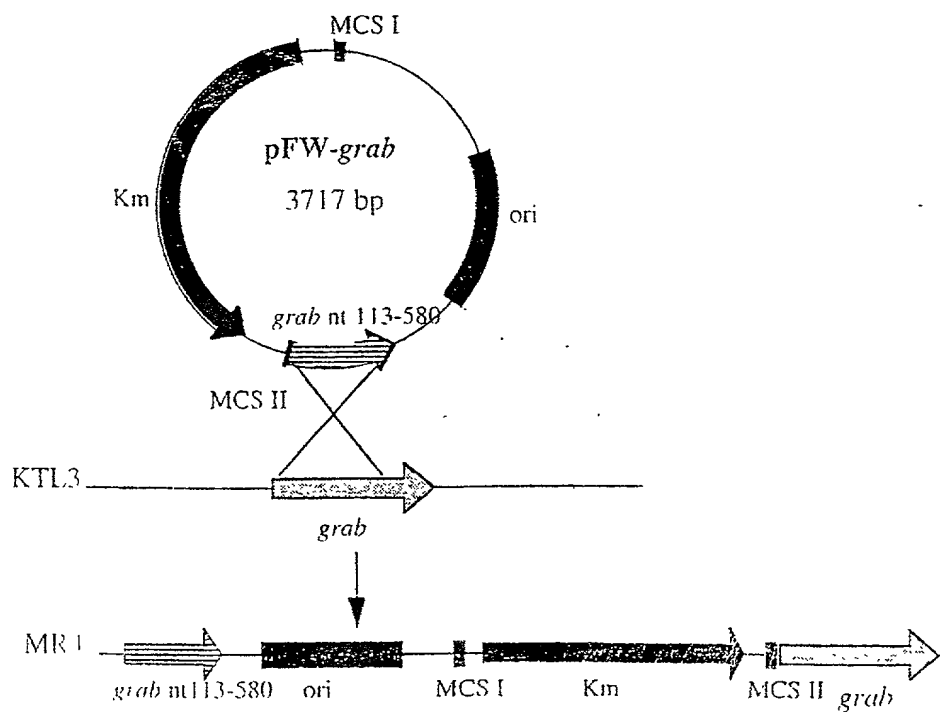


FIG. 5

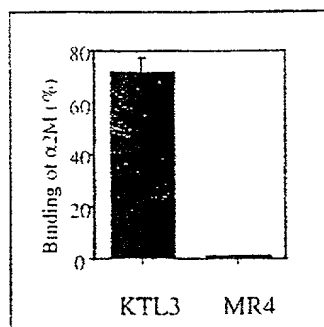


FIG. 5

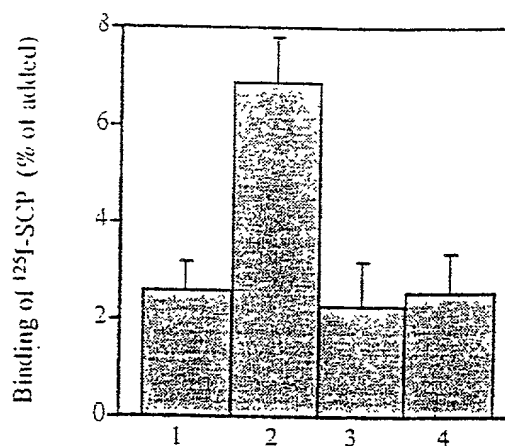


FIG. 7

6/9

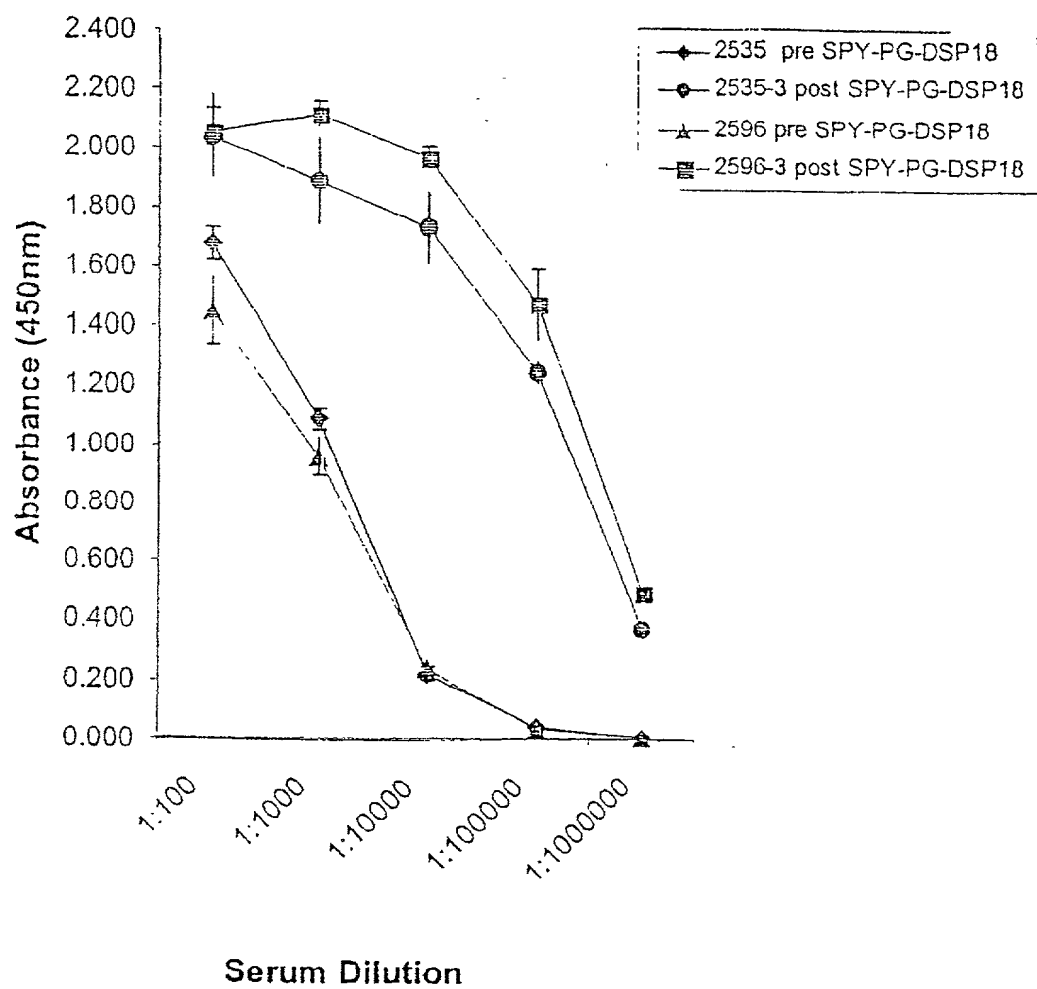


FIG. 8

7/9

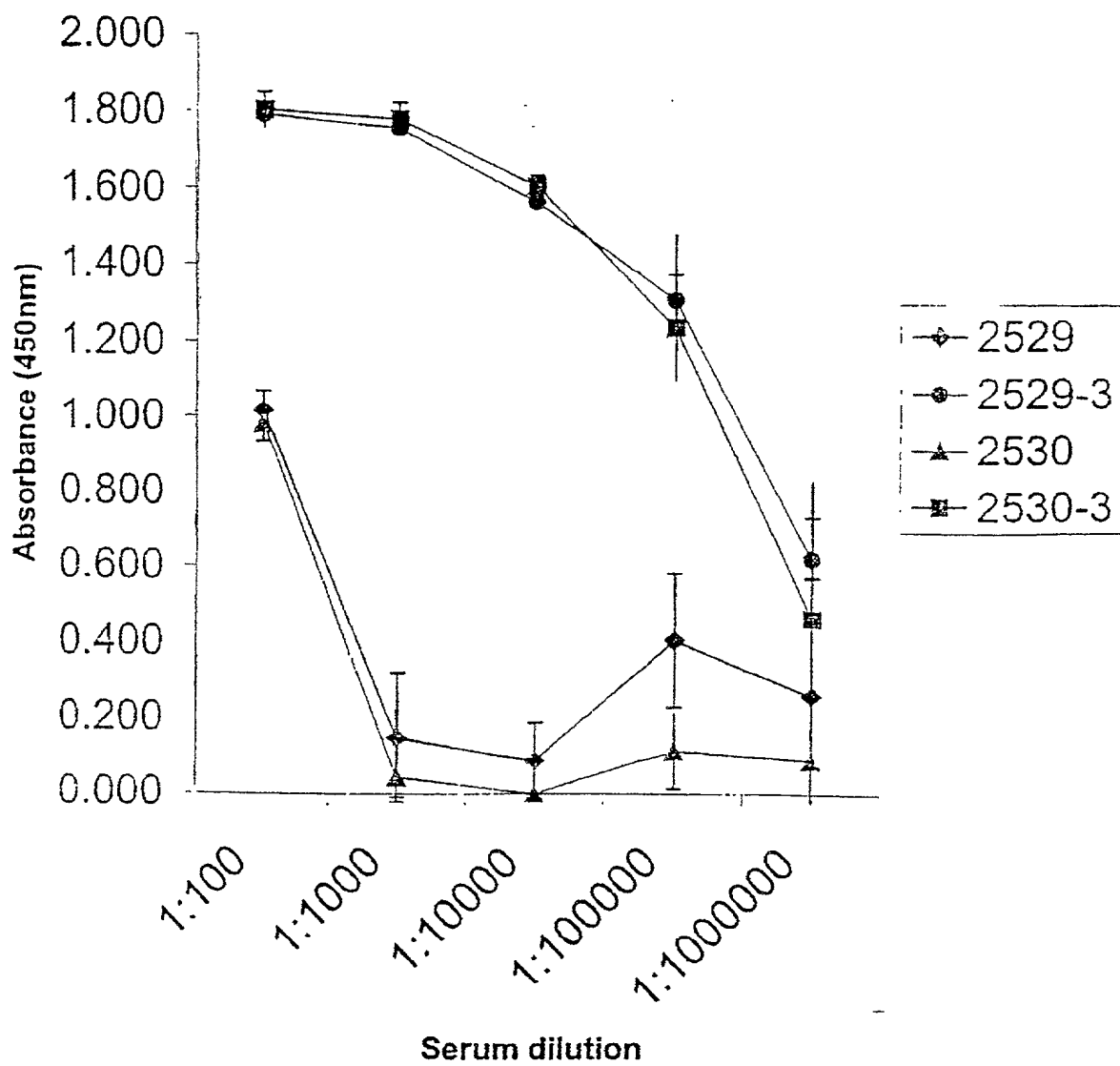
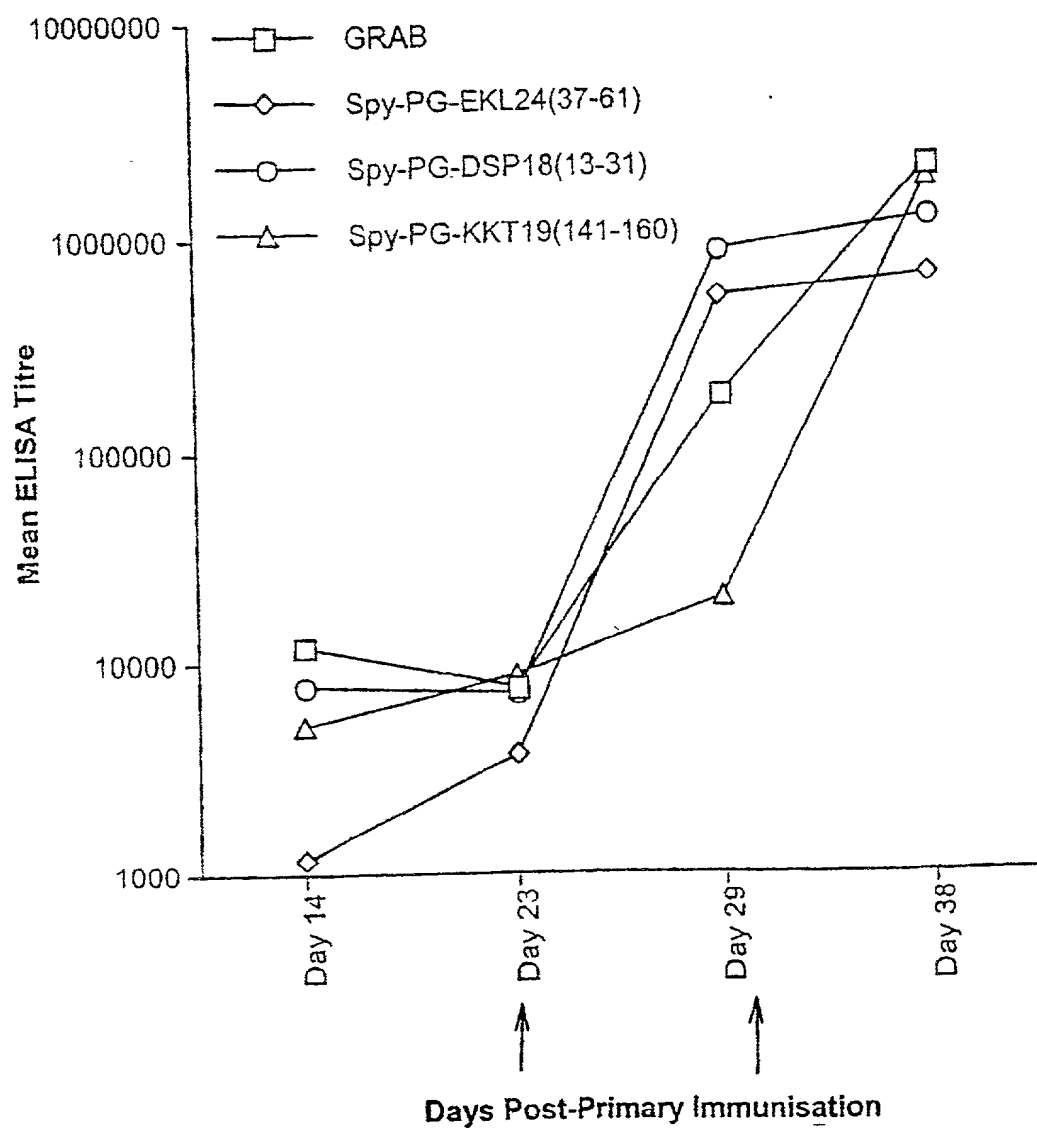


FIG. 9

8/9



• Arrows indicate boost.

Boost 1= 30 μ g

Boost 2= 15 μ g

FIG. 10

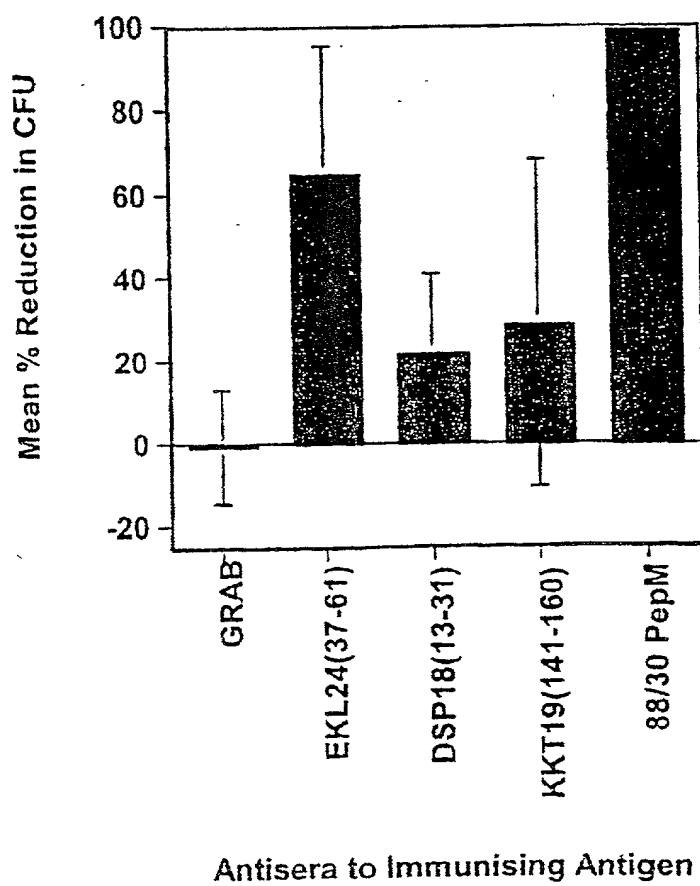


FIG. 11